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Amendments to the Claims

Claims 1-27 (canceled).

- An improved process for the dimerization of (currently amended) 28. an alpha substituted styrene wherein the improvement comprises contacting said alpha substituted styrene with a catalytic porous microcomposite comprising perfluorinated ion-exchange polymer with pendant sulfonic and/or carboxylic acid groups entrapped within and highly dispersed throughout a network of metal oxide, wherein the weight percentage of perfluorinated ion-exchange polymer in the microcomposite is from about 0.1 to about 90 percent, and wherein the size of the pores in the microcomposite is about 1 nm to about 75 nm, and wherein the microcomposite optionally further comprises pores having a size in the range of about 75 nm to about 1000 nm.
- The process of Claim 28 wherein the alpha substituted 29. (original) styrene is alpha methyl styrene.
- The process of Claim 28 wherein the perfluorinated ion-30. (original) exchange polymer contains pendant sulfonic acid groups and the metal oxide is silica, alumina, titania, germania, zirconia, alumino-silicate, zirconyl-silicate, chromic oxide and/or iron oxide.
- The process of Claim 30 57 wherein the 31. (currently amended) metal oxide is silica and said microcomposite further comprises pores having a size in the range of about 75 nm to about 1000 nm.

Claims 32-56 (canceled).

- The process of Claim 28 wherein the microcomposite 57. (new) further comprises pores having a size in the range of about 75 nm to about 1000 nm.
- The process of Claim 31 wherein the perfluorinated ion-58. (new) exchange polymer has about 6.3 tetrafluoroethylene molecules for every perfluoro(3,6-dioxa-4-methyl-7-octenesulfonyl fluoride) molecule and has an equivalent weight of about 1070.